

INSPECTION REPORT

APPLICABLE DOC. REF.

AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001
is. 1

PROC. REF.

N.A.

ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – Esem 3-B Board Assy p/n:11-AMS02PDS-400.00 s/n:01(pcb s/n:07-022/A) and Esem 3-B Board Assy p/n:11-AMS02PDS-400.00 s/n:02(pcb s/n:07-022/B) – Inspection Point.

REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 3 September 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

- 1) Esem 3-B Board Assy p/n:11-AMS02PDS-400.00 s/n:01 (pcb s/n:07-022/A).
- 2) Esem 3-B Board Assy p/n:11-AMS02PDS-400.00 s/n:02 (pcb s/n:07-022/B).

HARDWARE REVIEW

1) Esem 3-B Board Assy p/n:11-AMS02PDS-400.00 s/n:01 (pcb s/n:07-022/A), Assy:11-AMS02PDS-400.00 rev./, Parts List:11-AMS02PDS-400.01 rev.A, Electrical Scheme:11-AMS02PDS-400.02 rev./, Master PCB:11-AMS02PDS-400.03 rev./.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-019(electronic components assembly problems), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-085(signal I/F problem), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-106(U12 comparator hysteresis problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and resistor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-109(outlets status filtering problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and capacitor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

	Operator	Quality Assurance	C.C.
Signature	E. FRANCINI		C. CINQUEPAOLI
Date	03/09/08		10/3/8

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INSPECTION (Action/Results)

The following PLVSS (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-400.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A3 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A4 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A5 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A6 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A7 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A8 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A11 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

2) Esem 3-B Board Asy p/n:11-AMS02PDS-400.00 s/n:02 (pcb s/n:07-022/B), Assy:11-AMS02PDS-400.00 rev./, Parts List:11-AMS02PDS-400.01 rev.A, Electrical Scheme:11-AMS02PDS-400.02 rev./, Master PCB:11-AMS02PDS-400.03 rev./.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-020(electronic components assembly problems), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-085(signal I/F problem), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-108(U12 comparator hysteresis problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and resistor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-109(outlets status filtering problem), NCR classified "minor" is still open during the inspection activity, all corrective actions will be performed.
- NCR-PDS-CGS-C-110(outlet 4 status malfunctioning), NCR classified "minor" is closed.

Operator

Quality Assurance

C.C.

Signature

Date

E. FRANCINI

03/09/08

C. CINQUEPACCHI
10/3/8

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INSPECTION (Action/Results)

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-400.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A3 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A4 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A5 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A9 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A10 can be considered closed.
- 11-AMS02PDS-400.01 rev A – A11 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

CONCLUSION

All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08A and ECSS-Q-70-38A, all modifications are performed according to ECSS-Q-70-28A.

The open points are here listed:

- 1) On Esem 3-B Board Asy p/n:11-AMS02PDS-400.00 s/n:01 (pcb s/n:07-022/A): NCR-PDS-CGS-C-106(U12 comparator hysteresis problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and resistor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- 2) On Esem 3-B Board Asy p/n:11-AMS02PDS-400.00 s/n:01 (pcb s/n:07-022/A): NCR-PDS-CGS-C-109(outlets status filtering problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and capacitor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

Operator

Quality Assurance

C.C.

Signature

Date

E. FRANCHI

03/09/08

C. C. FRANCHI
10/3/8



CARLO GAVAZZI

CARLO GAVAZZI SPACE SpA

AMS02-PDS

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- 3) On Esem 3-B Board Asy p/n:11-AMS02PDS-400.00 s/n:02 (pcb s/n:07-022/B): NCR-PDS-CGS-C-108(U12 comparator hysteresis problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires and resistor with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- 4) On Esem 3-B Board Asy p/n:11-AMS02PDS-400.00 s/n:02 (pcb s/n:07-022/B): NCR-PDS-CGS-C-109(outlets status filtering problem), NCR classified "minor" is still open during the inspection activity, all corrective actions will be performed.

Operator

Quality Assurance

C.C.

Signature

Date

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